# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

Estimate Cost Rs. 800000.00

Name of Work: Detailed Estimate for the work of Providing Collapsable gate, water supply & Electrical fitting to Rangamandhira at Judicial layout in ward No- 04.

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | KSRB. 7.1 Providing and fixing in position collapsible steel stutters with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5 cms openings at 10 cms. c to c applying a priming coat of re lead paint, cost of materials, labour, HOM of machinery complete as per specifications. Size of gate 2.4mx1.4m Specification NO, KBS 7.7 / 7.12 Page No. 36/ Item No. 7.1/ PWD SR 2016-17 | Sqm | | | | | | | |
| | Gate | | 1 | 15.00 | | 4.20 | 63.00 | | |
| | | | | | | | 63.00 | 4274.98 | 269324.00 |
| | Basic Rate | 4033.00 | | | | | | | |
| | Area Weightage @ 6% | 241.98 | | | | | | | |
| | Total | 4274.98 | | | | | | | |
| 2 | KSRB 7.9 : Providing and fixing M.S. grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 Page No. 32/ Item No. 7.9/ PWD SR 2016-17 | Kgs | | | | | | | |
| | 10mm dia squre rods 100 mm c/c 150Nosx1.8x0.785 =211.95 kg | 211.95 | | | | | | | |
| | 50Nos x 12 Mtrs x 0.785 = 471.00kg | 471.00 | | | | | | | |
| | 10mm thick 75mmx75mm equal angel = 11.00 kg/mtr | | | | | | | | |
| | 2x2x15mtrs = 60mtrs + 2x2x2mtrs=8mtrs total = 68mtrs | | 68 | 11.00 | | | 748.00 | | |
| | | | | | | | 682.95 | | |
| | | | | | | | 1430.95 | 82.68 | 118311.00 |

| NO | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic Rate | 78.00 | | | | | | | |
| | Area Weightage @ 6% | 4.68 | | | | | | | |
| | **Total** | **82.68** | | | | | | | |
| 3 | KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3) | cum | | | | | | | |
| | for flatform infront of Rangamandira | | 2 | 5.00 | 4.20 | 0.30 | 12.60 | | |
| | | | | | | | **12.60** | **200.34** | **2524.00** |
| | Basic Rate | 189.00 | | | | | | | |
| | Area Weightage @ 6% | 11.34 | | | | | | | |
| | **Total** | **200.34** | | | | | | | |
| 4 | KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17) | cum | | | | | | | |
| | | | Vide Item No. 1 | | | | 12.60 | 85.65 | 1079.00 |
| | Basic Rate for loading and unloading | 68.00 | | | | | | | |
| | Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.50 X 4 | 12.80 | | | | | | | |
| | | **80.80** | | | | | | | |
| | Area Weightage @ 6% | 4.85 | | | | | | | |
| | **Total** | **85.65** | | | | | | | |

| NO | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 5 | KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix **1:3:6 withOPC** cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2016-17 | Cum | | | | | | | |
| | for flat form | | 2 | 5.00 | 4.20 | 0.15 | 6.30 | | |
| | | | | | | | **6.30** | **5348.76** | **33697.00** |
| | Basic Rate | 5046.00 | | | | | | | |
| | Area Weightage @ 6% | 302.76 | | | | | | | |
| | **Total** | **5348.76** | | | | | | | |
| | | | | | | | | | |
| 6 | KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc,** including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17 | Cum | | | | | | | |
| | for flatform | | 2 | 5.00 | 4.20 | 0.10 | 4.20 | | |
| | | | | | | | **4.20** | **6371.66** | **26761.00** |
| | Basic Rate | 6011.00 | | | | | | | |
| | Area Weightage @ 6% | 360.66 | | | | | | | |
| | **Total** | **6371.66** | | | | | | | |

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 7 | Providing and fixing vitrified glazed tiles of approved make quality & colour of size 600x600x10mm thick fixed on bed of 12mm thick cement mortar for flooring skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles including providing spacess at required intervel and removing stains including cost of all materials morter labour etc complete as per specification Page No 107 Item no 14.45 PWD SR PWD SR 2016-17 | Sqm | | | | | | | |
| | For Govt LBS Nagara School | | 4 | 4.80 | | 4.80 | 92.16 | | |
| | | 4x2 | 8 | 4.80 | | 0.15 | 5.76 | | |
| | | 4x2 | 8 | 4.80 | | 0.15 | 5.76 | | |
| | | | | | | | **103.68** | 1178.72 | **122210.00** |
| | Basic Rate | 1112.00 | | | | | | | |
| | Area Weightage @ 6% | 66.72 | | | | | | | |
| | **Total** | **1178.72** | | | | | | | |
| 8 | Providing and fixing M.S Gate as per chief architect drawing using 50mm x 50mm 14 guage M.S hollow pipe frame work bent to ornamental shape as shown in the drawinf and 35mm x 6mm and 16mm x16 mm squre rods for verticle alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S flats for horizontal member and at the top cast iron spikes are provided at alternate verticle members as shown in the drawingetc., complete all the steel surface shold be thoroughly cleaned free of dust and painted with anti corrosive paint (shop paint) etc.,complete the work includes cost of all materil labour charges for all items of work, hire charges for welding, cutting and grindingequipment and electrically charges with lead and lift, loading and unloading charges complete as per specification( P 42&43 / I.N 7.37) | Sqm | | | | | | | |
| | | | 1 | 2.75 | | 2.20 | 6.05 | | |
| | | | 1 | 4.75 | | 2.20 | 10.45 | | |
| | | | 1 | 5.00 | | 2.00 | 10.00 | | |
| | | | | | | | **26.50** | 3238.30 | **85815.00** |
| | Basic Rate | 3055.00 | | | | | | | |
| | Area Weightage @ 6% | 183.30 | | | | | | | |
| | **Total** | **3238.30** | | | | | | | |
| | | | | | | | TOTAL (A) | | 659721 |
| | **Electrification work For Library building premises and LBS Nagara GPS School** | | | | | | | | |

| Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|
| pointing wiring using copper with switch: Supplying and wiring adoping loop system in exiting PVC conduit/casing caping using copper PVC insulated multi strand 2 x1.5 sqmm coper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of wires shall be terminated with sufficient loose length in a wood/PVC round block. Complete for each outlet.II point wiring using class B materials (3/6) a) Short point upto 3 mtrs from tapping point to out let via switch | Each | 4 | | | | 4 | 160.00 | 640.00 |
| Medium point above 3Mtrs upto 6Mtrs from taping point to out let via switch | Each | 4 | | | | 4 | 245.00 | 980.00 |
| a) Long point above 6Mtrs upto 10 Mtrs from tapping point to out let via switch | Each | 4 | | | | 4 | 345.00 | 1380.00 |
| Wiring for lightin/power circuit using one of PVC insulted 1100v grade,multistrand copper conductor single core cable in open or consealed system of wiring.II Group B e) 6 sqmm (9/20) | Each | 20 | | | | 20 | 45.00 | 900.00 |
| Groove Cutting : Supplying ... dia 2mm/2.5mm thick heavy gauage PVC Conduit Pipe with bends metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary a) 19/20mm dia 2mm thick (2/3) | Per Mtr | 20 | | | | 20 | 43.00 | 860.00 |
| Supplying and fixing PVC/metal conduit accessories special type Junction Box a) 19/20mm junction box (3/5) | Each | 4 | | | | 4 | 18.00 | 72.00 |
| DEEP Junction Box a) 18/20 mm deep junction box | Each | 16 | | | | 16 | 29.00 | 464.00 |
| 32.Supplying and fixing metal fan box with round hook (32/11) | Each | 8 | | | | 8 | 72.00 | 576.00 |
| Supplying and flush mounting teak wooden box with out front plank made of not less than 12mm thick wood after due groove cutting necessary masonry patch work complete. (6/3) b) 12"x9"x3" (300x228x76mm) | Each | 4 | | | | 4 | 80.00 | 320.00 |

| Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|
| Supplying and fixing of modular switch/Scocket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate. II using group B" Meterial (8/18) e) 600 watts dimmer | Each | 4 | | | | 4 | 390.00 | 1560.00 |
| g) 16 Amps one way switch | Each | 2 | | | | 2 | 115.00 | 230.00 |
| J) 6/16 Amps Universal Socket | Each | 2 | | | | 2 | 170.00 | 340.00 |
| Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or metal box using N.F.Screws. (22/10) | sq.cm | 1000 | | | | 1000 | 0.22 | 220.00 |
| Supplying surface mounted type mirror optic luminaries for single/twin 36/40 watts fluorescent lamps cross rising of stove enameled deep coloured M.S.low profile housing complete with all accessories and high purity anodized aluminium reflector assembling along with cross louvers including necessary fluorescent tubes with Energy saving Electronic Ballest Etc. complete set II 2x4' 36/40 watts B) group B' (5/17) | Each | 2 | | | | 2 | 2500.00 | 5000.00 |
| supplying capacitor type celing fan complete with dawn blades,shackle,canopies etc for operation on 230 Volts, 50 cycles,single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved 1 48" Sweep(1200 mm) a) Regular Model (23/23) | Each | 2 | | | | 2 | 1800.00 | 3600.00 |
| Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for e for light duty suitable for operate on 230 V 50 Hz, AC Supply... a) Group A' (21/22) | Each | 2 | | | | 2 | 1250.00 | 2500.00 |

| Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|
| Supply patty type fluorescent tube light fitting of 4-36/40 watts flourescent tube fitting,made out of M.S sheet and stove eanmeled with low loss open construction copper wound ferromagnetic ballast, strter,locking type prass contact holders mounted on double fold type sheet base fully wired for use on 230 volts A C supply including 1NO 4-36/40 watts fluorescent tube.) (2/16) Group A | Each | 2 | | | | 2 | 360.00 | 720.00 |
| Fixing all types and all capacities fluorescent/false celing/spot light/CFL fitting indoor on the wall/ celing/rafters/griders using 23/0.0076" twin twisted PVC insulated wires,required nos of blocks and clamps(if required) a) On wall/ ceiling/ Rafter/Griders (7/29) | Each | 8 | | | | 8 | 105.00 | 840.00 |
| Fixing one ceiling/wall mounting fan of all capacities and all types to the exiting S hook with fan regular to the exiting board together with supplying and fixing a 5 ampers ceiling rose,necessary langth of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (8/29) | Each | 8 | | | | 8 | 105.00 | 840.00 |
| Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts 5 amps ceiling rose with sufficient length of 23/0.0076 inch PVC insulated twin core wire of apporoved Make (12/29) | Each | 4 | | | | 4 | 310.00 | 1240.00 |

| Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|
| Supplying,fixing wiring earth electrode for grouding conduits. I.C outouts and other equipment on the meter board using 40mm dia 2.90 thick GI2.5 mtrlong buried in a pit should be filled with equal proporation of salt and charcoal 150mm alround the pipe to complete depth. The conection from the pipe to the conduit etc is to be established throughGI wire of size as per ISI specifications 7.33 of IS 732 using 12mm dia bolts,nuts,washers and checknuts etc,the pipe shall have 16 through holes 12mm dia (68/01) | Each | 2 | | | | 2 | 1950.00 | 3900.00 |
| suplying and mixing miniature circuit breakers on exiting MCB distribution boards using necessary fixing materials and C type curve,indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required. a) 32 Amps SP 1)Group A (12/36) | Each | 4 | | | | 4 | 195.00 | 780.00 |
| Energy meter box. Supply and instalation/fixing/ provision of outdoor type thermoplastic modular panel enclousers with transperent polycarbonate lid shock proof,coreosion proof having internally embedded gasket on both lid and flap suitable to fix. Single phase/three phase energy meter in suitable base plate and having a provision fo fuse/ MCB cutout with suitable transperent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. a) 300 x 300 x 214 mm (40/42) | Each | 2 | | | | 2 | 3055.00 | 6110.00 |
| Supplying of LT UG cable having aluminium conductor PVC insulated,sheathed,galvanized,steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV class A PVC Cabled)4 core 16 sqmm (68/04) | Per Mtr | 5 | | | | 5 | 150.00 | 750.00 |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 29 | Labour charges for laying of 1.1KV Class UG cable in existing trench GI pipe stoneware pipe/on wall/on pole as required a) 6sqmm to 16 10 sqmm (5/69) | R.Mtr | 10 | | | | 10 | 8.00 | 80.00 |
| 30 | Digging of trench of 0.6mm deep * 0.50 mtr wide refilling the trench to the required ground level and consolidating etc. complete.(As per Civil SR KSRB 1-2p-7)a. in Ordinary soil (6/70) | R.Mtr | 10 | | | | 10 | 40.00 | 400.00 |
| 30 | Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not lessthan 3.25mm on pole/wall/drain crossing eith necessary clamping arrangements for UG cable of 1.1 KV class B.50 mm (9/70) | Mtr | 2 | | | | 2 | 260.00 | 520.00 |
| 31 | Suplying and fixing L.T cast Iron Pot Heads suitable for 1.1KV class UG cable filled with Necessary bitumen/insulating compound complete with erminals,clamps,bolts,nuts and washers etc,. b. 16 Sqmm (10/70) | Each | 2 | | | | 2 | 260.00 | 520.00 |
| | | | | | | | Total B ) | | 36342.00 |
| | WATER SUPPLY AND SANITARY WORKS | | | | | | | | |
| 1 | KSRB 13-8.11 Providing and fixing to wall, ceiling and floor, low-density polyethylene pipes 10.00KGf/sq.cm. working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling an floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No. 13.2.15.1 / 13.9,, Page No. 103/ Item No. 13.76 / PWD SR 2016-17 | Mtrs | | | | | | | |
| | | | 1 | 50.00 | | | 50.00 | | |
| | | | | | | | 50.00 | 115.54 | 5777.00 |
| | Basic Rate | 109.00 | | | | | | | |
| | Area Weightage @ 6% | 6.54 | | | | | | | |
| | Total | 115.54 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 2 | KSRB 12-1.1 : Providing and laying in position to required level or slope 200mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications.Specification No. KBS 12.2.5/12.7 Page No. 67/ Item No. 11.3/ PWD SR 2016-17 | Mtrs | | | | | | | |
| | | | 1 | 15.00 | | | 15.00 | | |
| | | | | | | | 15.00 | 506.68 | 7600.00 |
| | Basic Rate | 478.00 | | | | | | | |
| | Area Weightage @ 6% | 28.68 | | | | | | | |
| | Total | 506.68 | | | | | | | |
| 3 | KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I. cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specificationsNo.KBS Page No. 70/ Item No. 11.50 PWD SR 2016-17 | Unit | | | | | | | |
| | | | 1 | 1 | | | 1 | | |
| | | | | | | | 1 | 7463.46 | 7463.00 |
| | Basic Rate | 7041.00 | | | | | | | |
| | Area Weightage @ 6% | 422.46 | | | | | | | |
| | Total | 7463.46 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRB 13-6 5.1: Providing and fixing in position 15mm nominal bore brass ferrule with C.I. mouth cover including boring and tapping the main, cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specifications NO KBS 13.3.3 / 13.14 Page No. 89// Item No. 13.43 / PWD SR 2016-17 | Each | | | | | | | |
| | Basic Rate | 182.00 | | | | | 3 | 192.92 | 579.00 |
| | Area Weightage @ 6% | 10.92 | | | | | | | |
| | Total | 192.92 | | | | | | | |
| 5 | Providing Supplying and commissioning of 1 HP submersible Monoblock pump with starter 15mm cable with necessary GI fittings with suction & Delivery hose pipes including necessary fittings etc completed as per specifications. | Nos | 1 | | | | 1 | | |
| 6 | Bescom Deposite | | | | | | 1 | 10000.00 | 10000.00 |
| | Rangamandhira | | 1 | | | | 1 | | |
| | BBMP office Library Building | | 1 | | | | 1 | | |
| | LBS Nagara GPS School | | 1 | | | | 1 | | |
| | | | | | | | 3 | 15000.00 | 45000.00 |
| | | | | | | | Total (C ) | | 76419.00 |
| | Coverin colour sheet for door | | | | | | Total A+B+c | | 772482 |
| 7 | Miscellaneous charges | | | | | | L/s | | 25000 |
| | | | | | | | | | 2518.00 |
| | | | | | | | | Total | 800000.00 |

(Rupees Eight Lakhs Only)

Administrative Sanction for Rs. 8.00 lacs Eight Lacks only is accorded under head P. 17471-16-17 2016-17

Registered in CE ( ) No. ... Subject to conditions contained in enclosed memo EE/ ... Dt. ... Dated ... Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 8.00 lacs Rupees Eight Lacks only Under P. 17471-16-17

EE(C)10K/16-17 16.2.2017 @ 100 lacs

## CERTIFICATE

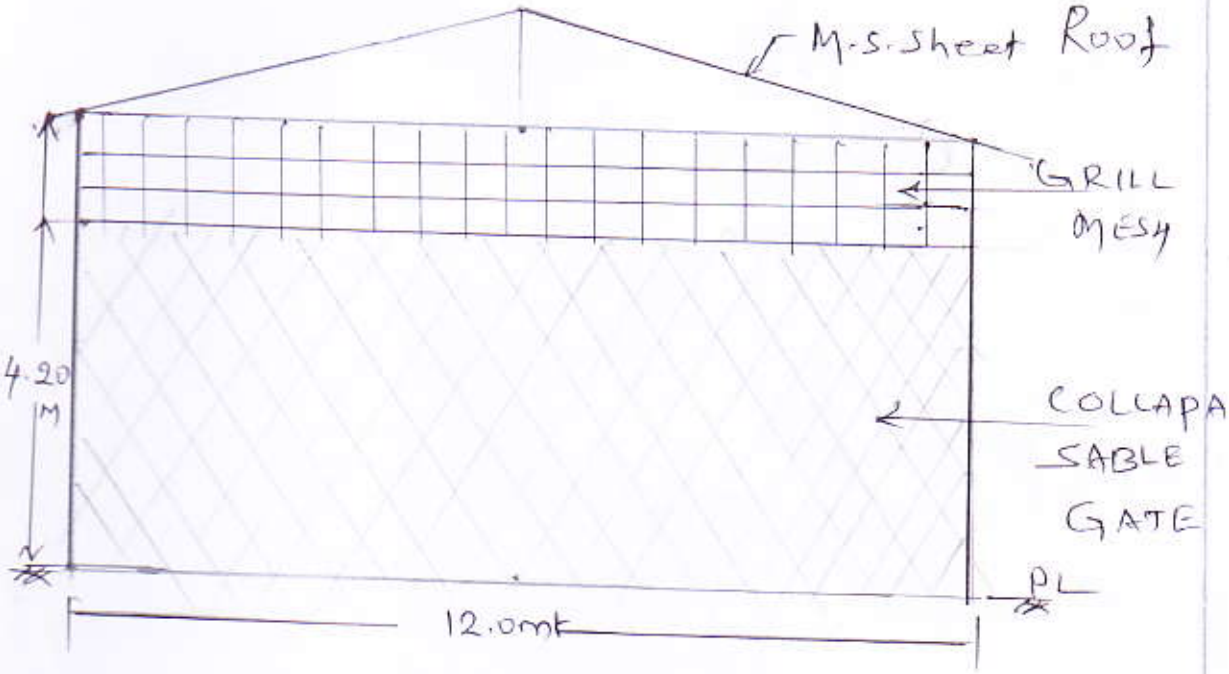
1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per C.S.R. of 2016-17
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka satellitetown Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

NAME OF WORK: PROVIDING COLLAPSABLE GATE WATER SUPPLY & ELECTRICAL FITTING TO RANGAMANDIRA @ JUDICIAL LAYOUT. IN WNO. 04




ELEVATION.

Ramarangeenah AE

150 - YELAHANKA AC

N

# BRUHAT BANGALORE MAHANAGAR PALIKE
## WARD: 4 - YELHANKA SATELLITE TOWN

NOTIFICATION NO. UDD 59 MLR 2009 DATE 15.07.09